



“Trends in Distributed Energy Technologies – A U.S. DOE Perspective”

**Integrated Energy Systems and Thermally
Activated Technologies Peer Review**

Nashville, TN

April 30-May 2

Bill Parks

Associate Deputy Assistant Secretary

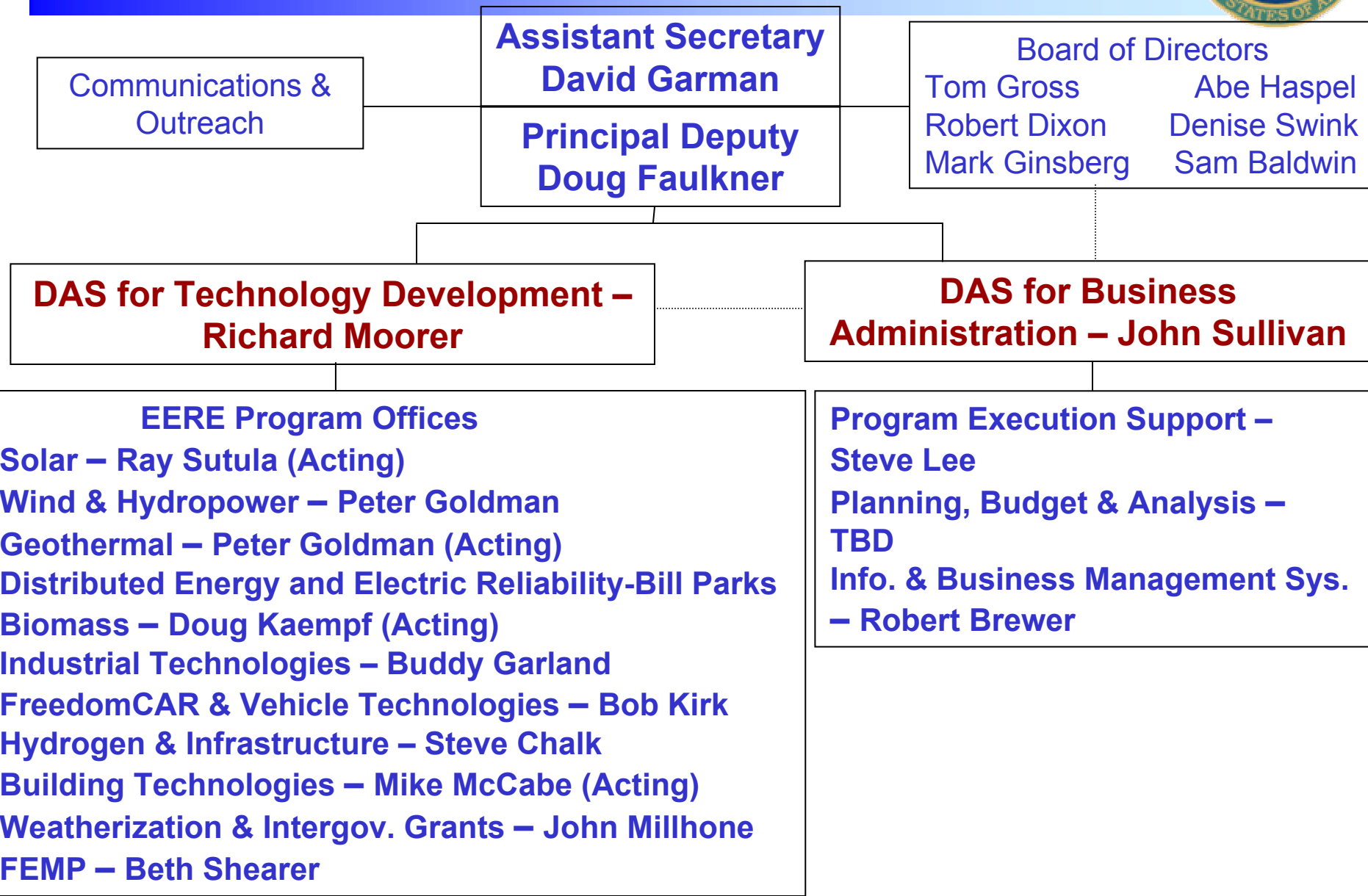
Office of Power Technologies

Energy Efficiency and Renewable Energy

US Department of Energy



EERE Reorganization



President's Management Agenda



- Results oriented
- Guides energy policy making
- Clearer and more measurable R&D investment criteria

“...what matters most is performance and results. In the long term, there are few items more urgent than ensuring that the federal government is well run and results-oriented.”

“All of us should dedicate ourselves to great goals: We are not here to mark time, but to make progress, to achieve results, and to leave a record of excellence.”

George W. Bush

EERE Strategic Program Review



To determine the historic performance of EERE programs, the SPR examined:

- **EERE technical accomplishments**
- **External recognition**
- **Benefits generated for taxpayers**

Areas the SPR identified for improvement are discussed in terms of:

- **Closures**
- **Redirections**
- **Watch-lists**
- **Expansions**
- **Best Practices**

Tragic Reminder



**Distributed
Power Units
Lower
Manhattan,
September
2001**



DER Portfolio



Fuel



Technology Development: Microturbines, recip engines, fuel cells, storage, wind turbine, PV



Technology Packages: CHP systems, hybrids



End-use Integration: Demand management, controls, sensors

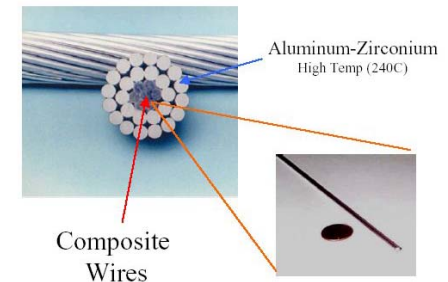


Utility Integration: Interconnection, power quality, power electronics



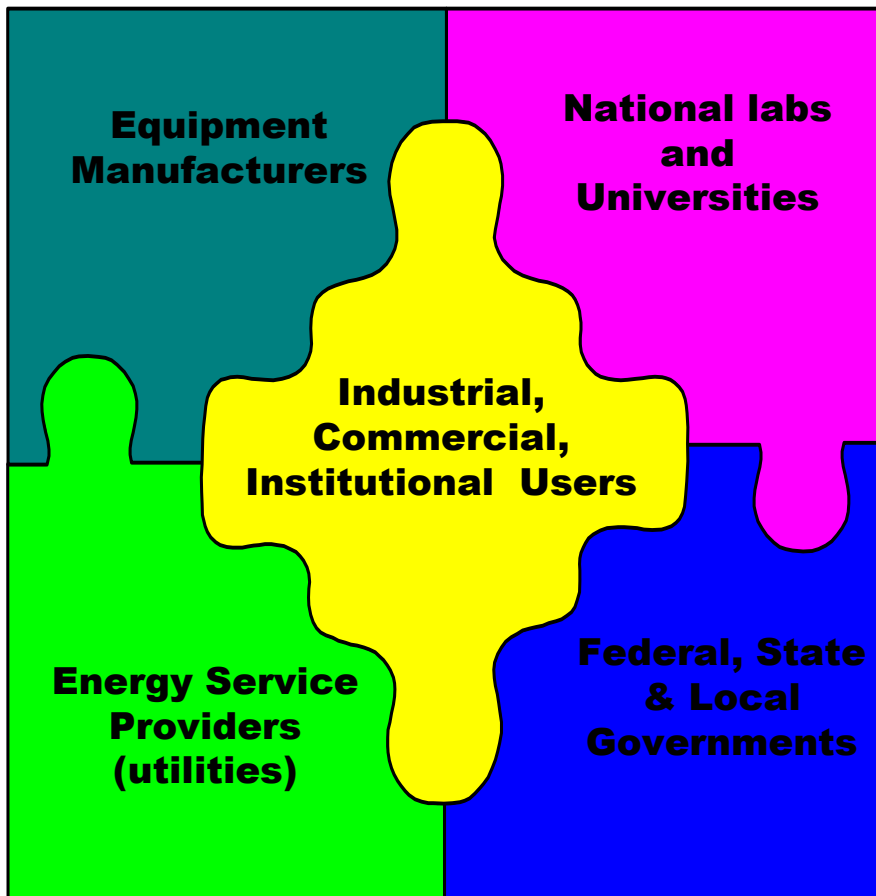
Distribution Systems: Load management, power parks, microgrids, storage, hydrogen

Composite Conductor



Transmission Systems: Reliability, security

Strategic Partnerships



PRIORITIES

- **Consistent message**
- **Technology performance targets**
- **Environmental targets**
- **Rate structure**
- **Quantifiable benefits**

Thermally Activated Technologies



- Priorities
 - Vision/Strategy
 - Technology Roadmap
 - Analysis of the Thermal Landscape.